

Vol. II. No. 3.

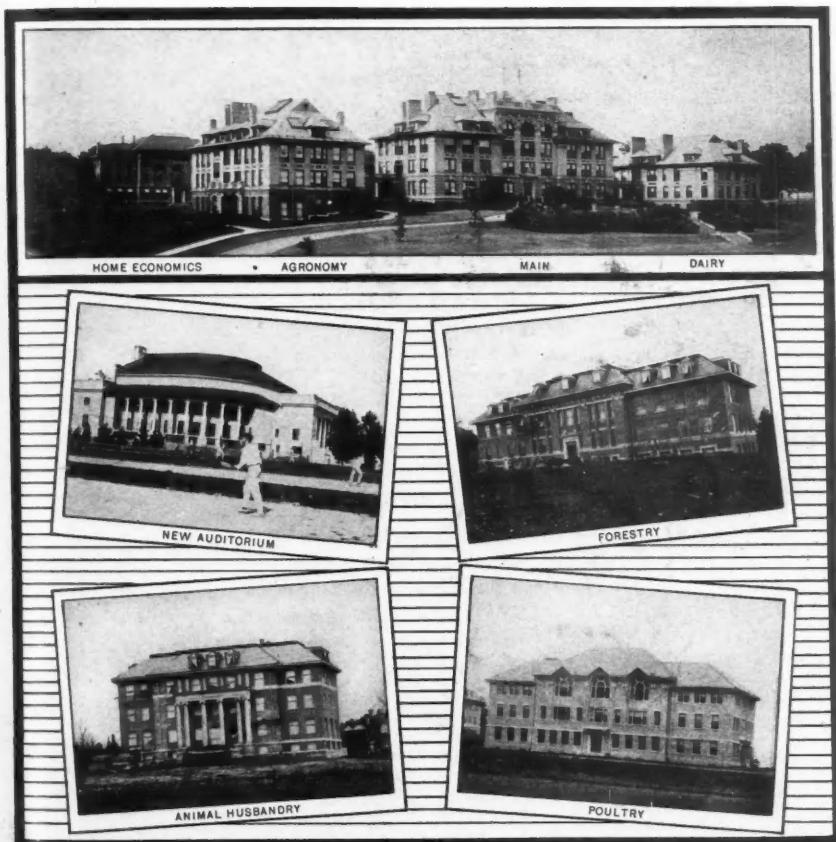
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The Cornell Countryman

DECEMBER, 1913



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**At the Co-op.
In Morrill Hall**

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This number is dedicated to
Liberty Hyde Bailey
in appreciation of his services to the
State and Nation. In appreciation of
the inspiration which he is to the
students now in the College of Agri-
culture and those who have gone before.

The Farthermost Hills

L. H. BAILEY

Come over the plains to the hilltops high,
Come over, come over and rest;
Stay not on the plains where soft zephyrs lie
But come to the heights where the clouds sweep by
And the world-round gales through the heavens fly,
Come over, come over and rest.

There's wonder-strong music where the storms sweep by
Where the forests are rent and the earth-woes cry,
There's a grand old song where things suffer and die
And the struggle is on 'twixt the earth and sky;
Escape your calm levels and on to the West,
Come out with your cares to the uttermost crest,
Come over, come over and rest.

The Cornell Countryman

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No. 3

LIFE OF LIBERTY HYDE BAILEY

LIBERTY Hyde Bailey, Jr., was born on a farm at South Haven, Van Buren County, Michigan, on March 15, 1858. He came of rugged stock. His father was a man of marked character, with strong attributes of body, mind, and heart; a successful farmer and fruit grower, one who blazed his way through original trails, a pioneer of the aggressive and purposeful type. South Haven is a lake-shore town, long famous for its fine fruit. The Bailey apple orchard was for many years easily the best in the state—so good that the father lamented that he had lost \$1500 one season by "not having apples enough to fill my orders."

On the home farm, amidst premier horticultural conditions, Professor Bailey was reared. At five years of age he entered the village school about a mile from his home; and he continued his education in the local schools until he was prepared for admission to the Michigan Agricultural College. When not in school he helped his father with the farm work. The years of youth and young manhood spent on the farm gave him the foundation and the back-ground for his later work.

From earliest youth the lad was possessed with a desire to know the little world in which he lived. It was a pioneer country, then being cut from the great woods. Most of the larger wild animals were scarce, but the woods sheltered many smaller animals and birds. To know how these creatures lived, to explore the caves

and holes and trees where they hid, to see them in their natural surroundings, was his constant desire. He fell in with the birds and with the strange creatures that lived in the streams and ponds. His spare moments were spent wandering, in his cowhide boots, through the woods, following the creeks, and climbing the hills in search of specimens of nature. The long, daily horse-back rides through fields and swamps and woods in search of the cattle were his great delight, and he always brought back with him a plant or insect that he had found. He was largely self-taught. He had a passion to classify, to know how one animal or plant was related to another. In this way he built up a large collection of insects, which he mounted and subsequently gave to the South Haven and Casco Pomological Society of which he was a member. It was his nature to be alone to think and study, and often did he steal away to Dyckman's thicket, a short distance from home, to collect plants and study them.

Seed catalogs had always an absorbing interest to him. Not until fourteen years of age had he seen a botany. At that time, on a visit a few miles from home, he found a friend studying a botany. It was the first book that he had ever seen that described, named and classified many kinds of plants. He borrowed the book. It was Asa Gray's "Field, Forest, and Garden Botany," which many years later he had the privilege of revising. It opened a new world to him which he eagerly explored.

While yet a mere school boy Professor Bailey presented essays before the local Pomological Society which attracted marked attention, not alone for their content but as well for their graceful yet simple and forceful language.

In 1877, at the age of nineteen, he entered the Michigan Agricultural College. His professors characterized him at once as "diligent, quick, and accurate." He had no time to waste, for,

Michigan he broke down and was forced to leave. On the second of these occasions he went to Illinois to stay with a brother. He could not remain idle, so applied to the editor of a local paper for work. He was set to gathering local items about town—with such success that within a month he was at the State Capitol as the authorized reporter of the proceedings of the legislature for a leading newspaper.



THE BAILEY HOMESTEAD AT SOUTH HAVEN, MICHIGAN.

as his father once remarked, "he was born in the wrong time of the moon for that." His thirst for natural science was keen, persistent, and never satisfied. His memory was excellent, his work always at the top. His imagination was fertile and creative, and added vividness and an artistic touch to his writings. Perhaps it helped him in his college class in horticulture to carry off the honors when the class was required by Professor Beal to write essays on "Stealing Fruit."

Though apparently robust, Bailey applied himself too zealously at his studies, and twice during his course at

About the time young Bailey was finishing his course at Michigan, Dr. Asa Gray of Harvard was casting about for a young man to help him in his laboratory, with small pay, "mainly for the love of the work." Bailey was appointed to the place. His associations with Dr. Gray were clearly evident in subsequent years. Here he received an impulse to develop his already keen botanical sense. During his two years at Harvard he prepared the best account of the genus Carex that had ever been published in this country. During these years he largely supported himself by contribu-



DEAN BAILEY AS A BOY.

tions to the agricultural press, for which he always found a ready demand.

Professor Bailey had received his Bachelor of Science degree at Michigan in 1882. On June 6, 1883, he married Annette L. Smith. In 1885 he was called back from Harvard to become Professor of Horticulture and Landscape Gardening in the Michigan Agricultural College. In 1886, his Alma Mater conferred on him the degree of Master in Science. During this same year he was employed on a geological and natural history survey of Minnesota. In 1888 he accepted a call to come to Cornell University as Professor of General and Experimental Horticulture, which position he reluctantly yielded up in 1903 to become Director of the College of Agriculture. He continued as Director until the time of his resignation, July 31, 1913.

Director Bailey's work since coming to Cornell University is well known and will be presented in some detail elsewhere in this issue; therefore, it is purposely omitted from this account. Suffice it to say that he became the foremost horticulturist in America. As an educator he has come to the foremost place, establishing new and accepted ideals in education. In no small degree has he been responsible for the direction in which agricultural

education has been developed. He has persistently accompanied his teaching and later educational work with investigations which have supplied the stimulus for much of his work. His remarkable command of English, his well-known ability as a platform speaker, the versatility of his pen, which speaks of the practical, the philosophical, and the poetic with equal mastery, have all combined to carry his ideals to rural workers everywhere. It is not too much to say that the writings of this one man alone have lifted agriculture as a life profession into a new plane. They breathe a spirit of hopefulness and dignity which create a like spirit in the toiler who reads.

No better testimony to Director Bailey's ability as an administrator is needed than is found in the great growth in the standard of scholarship, registration, and material equipment of the New York State College of Agriculture under his leadership.



DEAN BAILEY AS A YOUNG MAN.



LIBERTY HYDE BAILEY, SR.

When he became Director in 1903, the buildings were valued at about \$60,000, the faculty consisted of nine persons, twenty-five courses were offered, the total enrollment of students of all grades was 252. In 1913, the buildings were valued at about \$1,125,000; the faculty consisted of 104 persons, two hundred and twenty-four courses were offered, and the total enrollment was 2,305 students of all grades.

Other men may excel in a single line, but who knows a man other than L. H.

Bailey who combines in one such an amazing array of abilities that he can touch life at all points with equal mastery, dignifying and enriching all that he does with his magnetic personality and his inspiring confidence. It is his rare combination of qualities that enables him to stand without a question as the leader in the forward movement in country life in America today. And the crowning glory of it all is that he is a man whom men love.

A. R. MANN.



MRS. LIBERTY HYDE BAILEY, SR.

The Farmer's Challenge

L. H. BAILEY

Blow ye winds and lay on ye storms
And come ye pests in rabble swarms
And fall ye blights in legion forms—
I am here; I surrender not
Nor yield my place one piece or jot;
For these are my lands
And these are my hands
And I am bone of the folk that resistlessly stands.

The blood of old ploughmen runs hard in my arm
Of axmen and yeomen and battlemen all
Who fought and who clinched not by marsh and wall
Who met the bold day and chased ev'ry alarm;
My father-kind sleep, but I hear the old call
And fight the hot battle by forge and by farm;
For these are my lands
And these are my hands
And I am bone of the folk that resistlessly stands.

L. H. BAILEY AS A STUDENT

WHEN I entered College as a Freshman, Bailey was a Junior. The upper classes were small in those days, and we Freshmen looked upon the upper students as great men, until we found how small some of them were. With one accord, I think our Freshmen decided that Bailey was the leading student in College. I never saw him play baseball, or engage in any of the rougher sports. His College power was derived entirely from his work as a student and the mastery of his subjects in the class room. At every College there are half a dozen men who seem to have an instinct for grasping the essential points of a subject. They do not seem obliged to grind out their work as many do, nor do the facts come to them in a flash of light, but somehow the instinct of study shows them just where to go and obtain the facts with the least effort. Bailey impressed me as a man of this type. He was always dignified, and was not what I would call a good "mixer" among the other students, yet he had the ability to command their respect. From the first time I saw Bailey up to the present he has seemed to me to carry an immense power in reserve. No matter what he did, or how brilliant his work might seem, you always got the idea

that "the half had never been told," and that he had never struck bottom or run short of material. Many students at College were brilliant and forcible. During a crisis they seemed to empty all their mental pockets and turn them inside out. Bailey never did this, but there was always that suggestion of power in reserve. Then there were strong men who seemed to realize their strength, and thought over that knowledge until it ran into a case of "big head." We never dreamed of such a thing with Bailey, for with all his ability and brilliant powers as a student he seemed to realize that after all the small slice of wisdom which one man can get hold of in the ordinary human life, is not worth bragging about. So far as I know Bailey never took the tongue out of a college bell, or shaved the gardener's cat, or emptied the barrel of water on a luckless Professor. I remember him rather as a studious, serious man, who knew what he went to College for, with fair training to take the course and the instinctive ability to go right to the heart of the subject and cover the essential fact.

H. W. COLLINGWOOD,
Editor Rural New Yorker.

L. H. BAILEY AS A TEACHER

MORRILL Hall, at the north end, was the scene of most of the teaching efforts of Director Bailey. When the College of Agriculture had but five or six rooms in which to carry on its work the teaching in horticulture as well as agriculture was carried on on the second floor, at the south side of the hall. Perhaps his most effective teaching was that in the courses of evolution of cultivated plants, pomology and in the botany of cultivated plants.

During many years the glory of the instruction in the horticultural department was centered in the course in evolution. In its day it was the most effective presentation of evolution given in Cornell University and attracted students from all colleges. By gradual and easy steps the student was led from the simple facts of variation to the most profound problems of evolution. Between a Socratic method of his own and a wealth of illustration especially physical, wher-

ever possible, the student finished the course with a point of view, not necessarily that of the instructor, giving him a grasp of the conditions in the biological world as few students outside of this course attained. As a forerunner of the courses in evolution and breeding now given in and out of agricultural colleges it has a foremost place in the history of such development.

The course in pomology was based on Professor Bailey's text book, but the skill with which the principles were instilled into the student was not a text book foundation, and the delights of the walks and talks in the orchards, gardens and laboratories and the excursions to other regions which

came as a part of the laboratory work will never be forgotten by those who had the good fortune to be members of these classes.

To the advanced and graduate student the course in the botany of cultivated plants was a rare treat. Not only did he get the theory and practice of systematic botany as applied to the cultivated plants but here in the intimacy of a small group the restraint of the class room was absent and the sketches of such men as Asa Gray or Edward Drinker Cope, the narratives of his own finds or the expounding of some philosophical conception in the field of biology made these hours unforgettable.

G. N. LAUMAN.

I Plow

L. H. BAILEY

Quick smell of the earth, I am come once more
To the feel of th' soil and the sky before
To the tang of th' ditch and wist of the bough
With stamp of my team and grip of my plow.

I am blowing again with th' wind and rain
I am falling with frost and snow
Yearning once more with the fields that have lain
Through the months of the drouth and flow,—
You shall hear the clank of my plow and chain
Where my hard-harnessed horses throw
And follow the welts that I rip in twain
As I turn up the lands below.

Jangle and crunch in the far-windy morn
Cut and grind through the singing sod
Stone and high-hummock and thistle and thorn
Root and stubble and rolling clod
Puddles that break into furrows foreshorn
Helm of the handles, plow-point's prod,—
With hale of great harvests my bouts are borne
Over th' basts of the glebes of God.

Mete to the mark are my furrows full-set
Hard with the muscle and marrow and sweat
Straightforth is the way and the fields are rise
High over the heights of the hills of life.



L. H. Bailey
A. K. Roberts
C. C. Coddington
H. S. Williams
J. H. Comstock
S. A. Prentiss

AGRICULTURAL FACULTY 1889.

L. H. BAILEY AS AN INVESTIGATOR

THERE are many kinds of investigators—all of them useful. The most typical sort is the one who shuts himself up with his problem and digs away at it to the permanent exclusion of all other interests. Bailey is not of this sort. His love of truth and desire for accuracy in all details are as great as any man's; but he has interests that will not be shut up to await the discovery of the last small detail. We are glad that this is so.

Doubtless, his investigations began on the old farm in Michigan. Studies of bramble-patches and orchards and meadows and 'coon-trees and swimming holes are about the best sort of subjects with which youth may begin. Doubtless his most important discovery in school was that there are improved ways of finding out about things: for he soon set out for college, and from college went at once to work with Asa Gray. It was entirely characteristic of him under the guidance of this foremost of American botanists, he should tackle the investigation of the biggest genus of our flora, the genus *Carex* of sedges, then in hopeless confusion. There was no harder task in sight; there was no service to American botany more needed.

Dr. Bailey is best known as an investigator for his work on *Carex*; the

work fate permitted him to pursue longest. He brought order out of confusion in this genus. He published a synopsis in the Proceedings of the Sciences, a long series of "Notes on *Carex*" in the *Botanical Gazette*, and other papers in the Contributions to the U. S. National Herbarium; and he revised the genus for the sixth edition of Gray's Manual of Botany. He also revised the grape family (*Vitaceae*) for Gray's Synoptic Flora of the U. S. The by-products of these early investigations appear in nearly all his books—notably in "The Survival of the Unlike" and the "Evolution of our Native Fruits."

Fortunately, the habit of the investigator reappears whenever the pressure of other duties allows. His last vacation was largely spent while in the Kew Gardens and in the West Indies investigating the genus *Begonia*—another vast genus that he found in sad confusion. Dr. Bailey would have been a great investigator if the world had let him spend his days studying plants. As it is, he has been a most useful and helpful one, notwithstanding that we have all been insisting that he should spend his time studying men and colleges and things.

JAMES G. NEEDHAM.

L. H. BAILEY AS A NATURALIST

THE true naturalist, like the poet, is born not made, and often the two are one; that is what happened when Liberty Hyde Bailey was born. From early childhood he loved Nature and studied her ways; and one of his boyhood treasures was a notebook in which he wrote his observations of birds, plants, and of the miracles wrought by the changing seasons. Of his playmate, the brook, he writes: "As a boy I explored it, but never found its source. It came somewhere

from the Beyond, and its name was mystery." "It became my teacher." "I remember that I was anxious for spring to come that I might see it again." "I watched for the suckers that came up from the river to spawn. I made a note when the first frog peeped. I waited for the unfolding spray to soften the bare trunks, I watched the greening of the banks and looked eagerly for the bluebird when I heard his curling note somewhere high in the air."

As with the boy, so it has been with the man. Through his intimacy with Nature, gained by daily companionship, he has achieved his broad vision and profound understanding. Her storms are as welcome to him as her sunshine, for he loves the rain; and the brown earth turned in the furrow is as beautiful in itself to him as are flowery fields. Thus, has he been made a naturalist, not because of his knowledge of one phase, but because of his sympathetic comprehension of God's earth as an entirety.

Although he became a specialist it did not narrow his interests or limit his

vision. Nature as a whole was ever worthy of his best thought, and this found expression in *The Survival of the Unlike*, a most important contribution to the literature of evolution. But his special message of appeal to the world is found in *The Nature-Study Idea* and *The Outlook to Nature*, books brimful of inspiration and profound truths,—clarion calls from a leader, who has by his work and his personality proven himself the foremost prophet of Nature in his generation.

ANNA BOTSFORD COMSTOCK.

A Rainy Day

L. H. BAILEY

The soft, gray rain comes slowly down,
Settling the mists on marshes brown,
Narrowing the world on wood and hill,
Drifting the fog down vale and rill.
The weed-stalks bend with pearly drops,
The grasses hang their misty tops,
The clean leaves drip with tiny spheres,
The fence rails run with pleasant tears.

Away with care! I walk to-day—
In meadows wet and forests gray;
Neath heavy trees with branches low,
Cross splashy fields where wild things grow.
Past shining reeds in knee-deep tarns,
By soaking crops and black-wet barns,
On mossy stones in dripping nooks,
Up rainy pools and brimming brooks
With waterfalls and cascades—
Fed by the new-born grassy rills;—
And then return across the lots
Through all the soft and watery spots.

Away with care! I walk to-day
In meadows wet and forests gray.

L. H. BAILEY AS POET, EDITOR AND WRITER

AS POET? My knowledge is worth just as much as my opinion, and that is worthless. The fault, the deficiency, is entirely mine, and the loss. Poet Bailey's poems will speak for themselves through the selections herein reprinted.

As Editor? In the old days of *The American Garden*, and in the younger days of *Country Life in America*, his editorial quality, as the printer sees it, was ideal. He could "cut" remorselessly; he could "fill" endlessly. His work fitted; his make-up really made up. He knew the mechanics of editing. Once I asked him to condense a statement of 130 words written by that master of clear English, Dr. Lyman Abbott. As Editor Bailey returned it, the statement, all there, sparklingly terse, had 60 words.

Again as Editor? When the first

issue of his monumental *Cyclopedia of Horticulture* was making, he supplied a tree-fern engraving with a meandering stem. The "make-up man" slyly squeezed it enough to get it between the columns of the page. The proof came back with this pertinent note: If you pull a dog's hind leg straight, is it a dog's hind leg any more?" No wonder the printers love him!

As Writer? Why say anything of his marvelous forcefulness, his notable simplicity, his singularly engaging quality? His writings are *him*; they talk as he does, lacking—not always—the smile. He is a master of his facile tool, the English language. And he is a greater master, in that this mastery is always used for the right, for the best, for growth, uplift, advance. Great is Writer Bailey!

J. HORACE MCFARLAND.

L. H. BAILEY AS A HORTICULTURALIST

TO DEAN Bailey, more than to any other man, we owe the creation of a distinct American horticultural literature. No other writer has been so profuse or has covered so diligently the entire field of horticultural science. Dean Bailey possesses to a wonderful extent the faculty of perceiving and appreciating the relationship of the different factors involved in a discussion and he imparts to his writings a clearness of expression not reached by many authors.

Dean Bailey's works include discourses on evolution, textbooks on elementary botany and various phases of horticultural practice, and the general principles of the different branches of horticultural effort. In nature-study he is a pioneer. He has taken a leading part in arousing popular interest in rural work and country life.

His later works deal with economic rural questions. In an editorial way he has had an intimate connection and influence upon a large number of important works, the most noteworthy of these being the *Cyclopedias of American Horticulture and Agriculture*. The accomplishment of either of such monumental works would be sufficient for most men; Dean Bailey has not only not been satisfied with accomplishing both, but in addition has to his credit more individual works than any other American horticultural writer.

Dean Bailey has had a very wide influence upon the progress of American horticultural science. His fine personality as a teacher and as a man has influenced and inspired his many students, especially those who, like the writer, have had the good fortune to come into close personal association

with him. Well may we pray that he be long spared to us to complete in a manner satisfactory to himself some of the things which the writer once heard him express the hope to do. The greatest consolation we have in Dean Bailey's retirement from active work at

Cornell is in the knowledge that the relief from administrative duties will enable him to devote his wonderful talents as a student, thinker and writer wholly to the cause of American agricultural progress.

A. V. STUBENRAUCH.

L. H. BAILEY AS A CO-WORKER

WHEN the authorities of Cornell University, many years ago, wrote to the President of the Agricultural College of Michigan to ask his opinion of Liberty Hyde Bailey, he replied that he scarcely knew what he thought because he had never been able to move fast enough to catch up with him. After Professor Bailey had been a while at Cornell, we came to understand. Here was a young man who did not wait for things to happen—he made them happen. While the frost was still in the ground he built a forcing house by digging into a clay hillside with a southern exposure and locating his beds over trenches filled with water. He couldn't wait for the ground to thaw, he just laid some planks on stilts and went to work.

In those days we all thought him a man of wonderful possibilities, but we did not do justice to his originality. Sometimes, he had a great many more ideas than he could use. I remember his planting a garden that first year, with everything on earth that would grow and the next year saying in surprise at himself: "I don't know what I planted some of that stuff for." It was part of his abundance of ideas not to be afraid of trying anything which promised to be of the least use in his line of work. He would graft tomatoes on potatoes or the reverse just to see how it would turn out. And he was neither discouraged by failure nor unduly elated by success. He had so much that was interesting in mind to do that he threw his failures aside and eagerly hastened on

to replace any successful venture with another still more inviting.

He had a good-humored adaptability which often stood him in good stead in place of appropriations and equipment. At a time when he seemed to be fairly staggering with work, he found time to undertake the editing of *Country Life in America*; and as there were no rooms on the campus available for this work, he opened editorial offices and installed two assistants in the upper story of what had been Mr. Henry Sage's barn. To Bailey nothing is a serious obstacle.

I might go on indefinitely reminiscing about those earlier and more picturesque days when Professor Bailey was growing so fast that we could not keep up with him, but I wish to speak of his larger and more rarely human qualities. He always manages to work harmoniously and he does not waste his time finding fault. He is able to leave the mistakes of others behind as well as his own. He has always had the ability to use all his time advantageously, thus doing twice the work of an ordinary man. In literary and editorial work he is especially gifted with sympathetic insight. For one illustration out of many, read the opening chapter of his latest book in which he illuminates the subject of agricultural education for boys with rare grasp and clarity of thought.

As for personal qualities he likes a joke but his habitual speech breathes purity of mind and devotion to high aims. There is, indeed, nothing petty or mean, jealous or ungracious about



DEAN BAILEY AND THE LAZY CLUB. MANY FAMOUS HORTICULTURISTS HAVE BEEN MEMBERS OF THIS CLUB.

him. He can bear disapproval and he is willing that others should have their own opinions. During fifteen years of close association we never had a misunderstanding. Above all, he is generous, always showing a fine appreciation of the work of other men in his own field, in this respect he is like Andrew D. White.

To this expression of my estimate of a man so constructive in mind and so artistic in temperament, I can only

add my hope that his life may be as fruitful and inspiring in the future as it has been in these rich years at Cornell. What the University loses, the world may gain manyfold when he is set free from executive cares and details, and can devote himself to work both broader and more intensive.

J. P. Roberts

My Purple Hills

L. H. BAILEY

Far over the valley are purple hills
Afloat in a twilight of haze;
I think there are fountains and falling rills
And aisles a-dream in th' forest ways;
I think there are birds with a song that thrills
And winds that roam in th' quiet days.

But the space between has a deep morass
With tangles and bogs that I fear to pass;
There are quaking hollows and sinking sands
And white burning suns on the sterile lands;
There are bottomless streams with luckless shores
And hedges of briars on the log-piled floors;
Blind depths I must cross and cliffs I must scale
That stand like walls in the dread intervale.

Yet I think that I see the falling rills
In the depths of the twilight bar,
And I listen to catch the song that thrills
Falling down from the aisles afar;—
I am journ'ying on to my purple hills,
And over the hills is a star.

L. H. BAILEY AS DIRECTOR OF THE EXPERIMENT STATION

ALMOST immediately after Professor Bailey became Director of the College of Agriculture, the facilities for carrying on the work of the Experiment Station were greatly improved. In the first year of his administration the University acquired the Mitchell farm, and thus was made possible the setting aside of the forty-five acres, known as the Caldwell Field, for experiments. A year later, in 1904, the New York State College of Agriculture was established, which resulted in greatly increased opportunities for research. And in 1906 the "Adams Fund" for the support of research became available.

The planning of the expansion of the work of the Experiment Station made possible by these agencies devolved upon Professor Bailey and his colleagues in the staff of the College. To Professor Bailey fell especially the task of deciding how best to strengthen the work already being carried on, what new fields of research should be added, and the selection of the additions to the staff of the station to carry on the additional work.

His wide knowledge of the needs of agriculture and the breadth of his sympathies made our Director exceedingly efficient in planning the expansion of the work; and his extensive acquaintance with the workers in this field enabled him to select the additions to the staff wisely. In the securing of the services of new men he was aided by the general confidence felt in him, which made a position on the staff of a college of which he was the head a very attractive one.

In his management of the station he followed the plan of carefully selecting the men to do the work, and then giving them large responsibilities and expecting good results. In short, Professor Bailey has shown a remarkable grasp of the varied interests involved; he has called strong men to carry on the work; he has stood for the doing of fundamental work; he has thought out new lines of investigation; and has always lent sympathetic aid to his colleagues.

J. H. COMSTOCK.

L. H. BAILEY AS A RURAL EDUCATOR

A former student at Cornell has just been telling me about Dean Bailey. I have pencilled notes of the young man's remarks. They are positive phrases and, like the Dean himself, they lack negations. Often, I fear, we speak of men for what they are not rather than for what they are. In response to a query regarding a man we usually say, "Oh! he's a good fellow, *but*—." One side of the record sheet has a single statement of positive good and the other a column of "Buts." However, people do not speak of Bailey with a "but" addenda.

"He always sees a *lot of problems* in every piece of work he takes up," said

the former Cornellian. One reason for his effectiveness in rural education rests upon the fact that he does see there are problems in open country education. He sees the problem of relating educational practice to environment; to child experience; to future occupation; to community needs. To him it is always a problem of relationship to other activities and interests. To him every factor in the open country contributes to the education of a child. He would up-build the church, the grange, the woman's club, the places of amusement and recreation. He would have the voter at the district meeting believe in the educa-

WASHINGTON, D.C. November 3, 1913

Mr. Frank W. Lathrop,
Editor, The Cornell Countrymen,
College of Agriculture,
Cornell University,
Ithaca, New York.

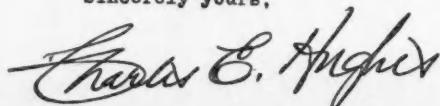
Dear Sir:

Your letter reached me after the term of Court had begun and at a time when it was impossible for me to give attention to any outside matters. While I have been unable to write such an article as you requested, I must at least give an expression -- though brief -- to my admiration for the work of Director Liberty Hyde Bailey.

During my administration I counted it a high privilege to have his counsel, not simply because of his intellectual power, his technical knowledge and his wide experience, but by reason of his broad sympathies and prophetic vision. He was a powerful aid in every effort to promote honorable and efficient administration, and with his remarkable understanding of the needs of our rural communities he constantly directed the attention of the people to deficiencies in existing conditions and to the methods by which these conditions might be improved.

The State is under lasting obligation to him on account of the excellence of his administrative work in connection with the College of Agriculture and still more because of his inspiring leadership in the movement for better country life. I take the greatest pleasure in extending to him, through you, my heartiest congratulations.

Sincerely yours,





GOVERNOR HUGHES AND DIRECTOR BAILEY ON THE STEPS OF THE AGRICULTURAL
MAIN BUILDING, MAY 27, 1907.

tive process. He would have the parent see that the home and the school must coöperate. He would have the grange and the club include youth in their membership. He would have the boy and girl of eighteen go to the continuation farm and homemaking school during the winter months. He would have the community feel as he feels—that education used in its broad and rightful sense is not a matter concerning one 24 x 36 school room, one school teacher, thirty-two weeks, \$565 school tax; but rather that it is a life process for old and young, for every agency working for betterment; for all forces, for all people, for all time.

And again, "He always makes his students see that there *is* a problem," to quote my friend. Some folks would say, "Rural education is a *problem*." Bailey says, "A problem for us is *rural education*." The first point of view leaves you with an intellectual wrinkle, the latter gives you the Bailey spirit. The first makes you see the difficulty. The last brings to your attention the thing itself. "Redirected education" is his phrase. A choice one too. Not an education turned upside down. Not exactly rebuilt from bottom to top; but just "redirected." It now means well. It is trying hard. Its spirit is good. I can just hear Dean Bailey saying to it, "Now, my good fellow, let me 're-direct' you. Your path is now cityward—away from nature, away from the business of the community, away from child's experience. I will re-direct you to the fields of living things, to the pathways of your sturdy forefathers, to the hills of growing trees, to the wonderful stories of nature. I want you to see the science in the soil, the physics in the plowshare, the mechanics in the reaper, the economics of farm production, the history of man in its relation to open country activities. I want you to hear the song of the brook, to gaze upon masterpieces of color and composition on the canvas of the sky, to listen to the voice of God in the world of nature."

"He is able to give a fellow the

inspiration to tackle problems." How well I can agree, for as a stranger to the State I came eight years ago to Cornell. I saw a great extension movement revamping the theory of the laboratory to the practice of the farm. It was an inspiration. "If I could only do as much for the industrial workers of the city; if the technique of the craftsman could be reborn; if only technical knowledge of the trade could be made available to the mechanical-minded men of a machine age." These were the words I poured out to the ear of Dean Bailey—the stranger. And then Bailey, the friend, said, "Wishing hard, my boy, will bring it to you." And adding in his half whimsical, half philosophical way, "Wish carefully, for we surely get what we desire."

"He is a sympathetic helper while a fellow is *solving* the problem" is a statement of fact for which from experience I can vouch. "How's the work going," is his greeting. "If I can help," is his parting word. It is always backed up with every sort of aid. No high school in the state that needs help in its agricultural outlines is ever refused. Every rural school teacher has on his desk leaflets on nature study. Every teacher of homemaking knows that bulletins on decoration, scientific cooking and sanitation, are hers for the asking. A State College in one respect at least, is like a newspaper. It needs money to start. Given a start it gets experts who cater to the needs of the public—this brings subscribers to the movement—this means more advertisers—this means funds. And funds mean a new start—more experts—larger clientele—more advertisers. A spiral-like series of causes and effects.

I do not know whether Bailey produced the extension idea in rural education or whether the extension idea produced Bailey. It is always hard to tell whether the man makes the work or whether an inspiring work makes the man. I only know that in Liberty Hyde Bailey's mind, to solve every educational problem means always to serve the people.

ARTHUR D. DEAN.

L. H. BAILEY AS A CITIZEN

THE Hon. J. J. Woodman, Master of the National Grange, visiting with the writer, back in Michigan several years ago, said, "Well, how is Bailey, the man you and I and every other native of old Van Buren County, are so proud of?"

And then he told me this story: "At one time we trustees of our University, were considering men who might possibly be obtainable to head a new Agricultural College. I had the temerity to suggest Liberty Hyde Bailey, when a man jumped to his feet and said, "What! that curly headed farmer boy from the South Haven Woods? Never!"

"Your great Agricultural College at Cornell is to be the greatest institution of its kind in the world and has already become, under Bailey's hand, a pattern

and an inspiration to every other similar institution."

As a citizen, Mr. Bailey is one of the most public spirited, approachable and neighborly men of the many noble men connected with our University.

Ever ready to give of his time and his money to assist in any enterprise which makes for civic improvement, he is never too busy to attend committee meetings and always takes more than his full share of detail work.

As an outcome of the City Improvement Society, of which he was so long president, came the movements which have deepened, walled and bridged our creeks, filled up our marshes and made our city a terminal of the great canal system.

J. M. CLAPP.



DEAN BAILEY'S HOME IN ITHACA ON STATE STREET.

The Outlook

287 Fourth Avenue
New York

Office of
Theodore Roosevelt

September 10th 1913.

My dear Mr Lathrop:

I wish I could write at length upon the admirable work that Director Bailey did as chairman of the Country Life Commission. I regard that as on the whole the most important commission of any kind that I appointed during my term as President, with one exception. I doubt if I should have undertaken to appoint the commission if I had not been able to get Director Bailey for its head, and no man in our country did better work for the country than he did on that commission.

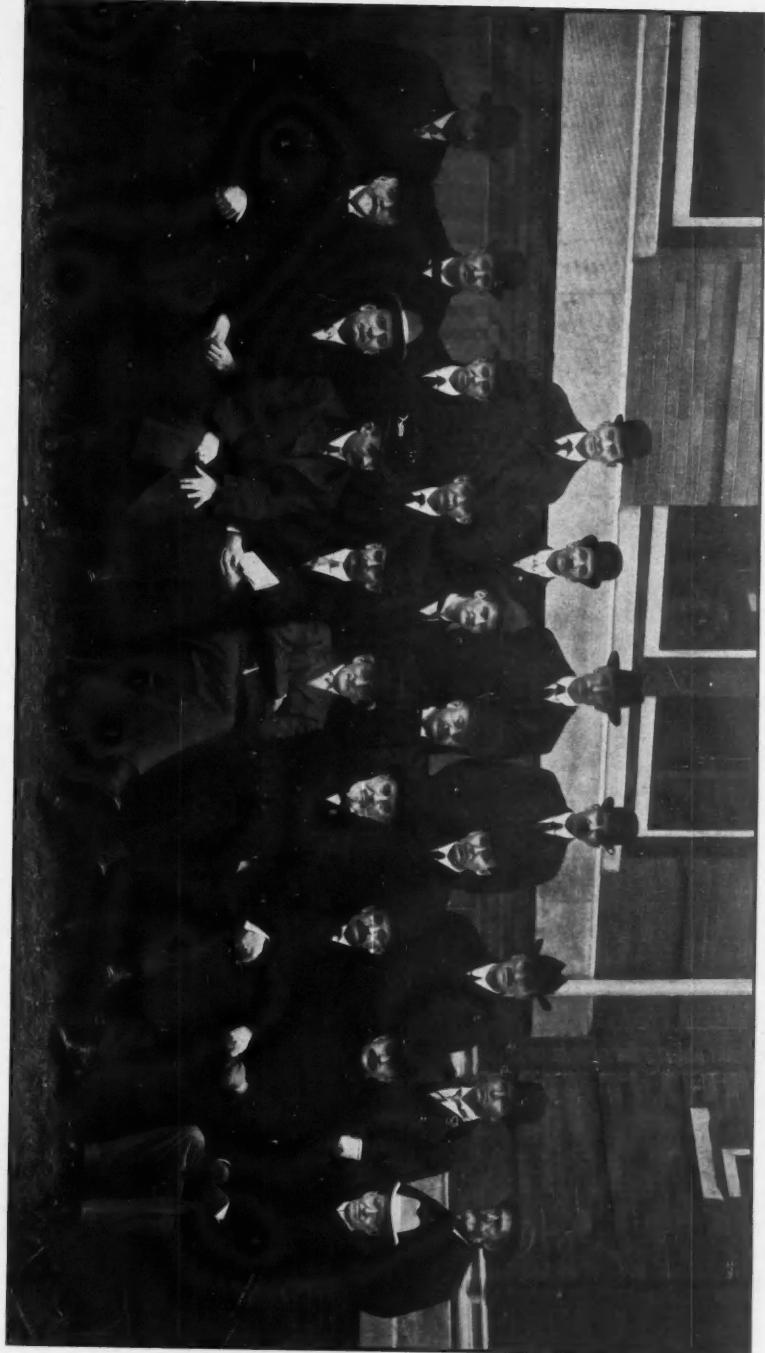
With heartiest good wishes for the success of your number, and expressing my gratitude to Director Bailey,

I am,

Faithfully yours,

Theodore Roosevelt

Mr Frank W. Lathrop,
The Cornell Countryman,
Cornell University,
Ithaca, N.Y.



THE COUNTRY LIFE COMMISSION AND PARTY WHICH VISITED ITHACA ON DECEMBER 16, 1908. THE FIVE MEMBERS OF THE COMMISSION PRESENT OCCUPY THE CENTER OF THE LOWER ROW.

L. H. BAILEY AS CHAIRMAN OF THE COUNTRY LIFE COMMISSION

PROFESSOR Bailey brought to the chairmanship of President Roosevelt's Country Life Commission a number of highly important qualifications. The first was a point of view. As one of his friends once said, Professor Bailey looks at the rural problem with two eyes. He saw the significance both of the scientific and the human, of the practical and the philosophical, of the individual and the social, of the material and the spiritual. He saw the relationships between these elements. He balanced them in a large philosophy of the whole rural question. His phrase for this question was "The building of a new rural civilization."

Professor Bailey's method of arriving at this point of view was vital and not academic. He had not gained his philosophy from books of sociology or economics. He began as a student of science; he had gained his hold upon men as a teacher of horticulture; and he had the experience of an administrator in agricultural education. These experiences had led him to see the whole breadth and scope of the rural problem. Hence, he insisted on a first-hand exploration by the Commission. Under his leadership, the Commission came into contact with men and women who were a part of the rural problem.

As Chairman of the Commission, Professor Bailey not only commanded the confidence of his associates, but of the public. There were many farmers who were prejudiced against the Commission. They resented an apparent attempt to put them in the category of people to be investigated and uplifted. But all who knew Professor Bailey, knew that he had no such thought, and that the work to be done was done in the spirit of service and helpfulness along important lines.

The charm characteristic of Professor Bailey's writings was an element of strength, when the Commission came to the task of preparing its report. I venture to say that no matter how much is written in the coming years on the rural problem, the report of the Country Life Commission will be one of the classics in this field, and largely because of the Chairman's responsibility for the phrasing of the report.

Professor Bailey has rendered many conspicuous services in the field of agricultural education and development. I am inclined to believe that his work as Chairman of the Country Life Commission is likely to prove the most far reaching in its effects of any of these great services.

PRESIDENT K. L. BUTTERFIELD,
Massachusetts Agricultural College.

Snow Storm

"With windy haste and wild halloo
the sheeting snow comes down
And drives itself through bush and swale
and leagues of stubble brown.
Blessings on the waiting fields when
the sheeting snow comes down."—L. H. B.

STATEMENT BY DR. ANDREW D. WHITE AT THE LAST MEETING OF THE CAYUGA BIRD CLUB

"The coming of Director Bailey to Cornell marked a distinct epoch in the history of the University. Director Bailey has given us our clearest expression of the relationship between life and nature."

And. D. White



BAILIWICK, DEAN BAILEY'S SUMMER HOME OVERLOOKING CAYUGA LAKE.



ANOTHER VIEW OF BAILIWICK.



DIRECTOR BAILEY GUIDING THE PLOW WHEN GROUND WAS BROKEN FOR THE
AGRICULTURAL BUILDINGS ON MAY 1, 1905.



DR. ANDREW D. WHITE, CORNELL'S FIRST PRESIDENT, BENEFACTOR AND FRIEND
OF AGRICULTURE, BREAKING GROUND FOR THE FIRST BUILDING FOR
THE STATE COLLEGE OF AGRICULTURE.

DIRECTOR BAILEY FROM THE STANDPOINT OF THE FACULTY

NO MAN ever had a more devoted and loyal faculty than Director Bailey has had in the College of Agriculture. This is perhaps the greatest tribute which can be paid to his success as director of a large faculty made up, as it is, of men with widely differing points of view and diversified lines of work. The ideals of a great leader are reflected in the lives of the men whom he gathers around him. In selecting members of his faculty, Director Bailey never lost sight of the importance of character and high ideals. To this fact perhaps more than to any other one thing is due the fine spirit of coöperation and devotion to work which characterizes the College of Agriculture.

The greatest general is the man who *leads* but does not *command*. Charged with great responsibilities himself, he placed great responsibilities upon members of his staff and gave them great freedom in working out the solution of educational problems and the administration of state funds. The members of his staff have worked untiringly not because it was required of them but because of the inspiration received from their great leader; not because they knew certain results were expected of them but because they appreciated the opportunities and desired to give the best that was in them to their fellowmen.

It is seldom that one man combines with the other great qualities which characterize Director Bailey, marked ability as a business manager and administrator. The best evidence of his administrative ability is found in the records of his office which show the care and wisdom with which he administered the funds entrusted to him and his ability to use successfully and to secure the greatest results from the large appropriations for which he was responsible.

With marvellous ability to recognize and grasp fundamental principles, Director Bailey was able to quickly analyze the situation and give wise counsel to the ablest of his staff; at the same time he could see the problem of the youngest man and give to him sympathy and advice. No member of his faculty ever went to him with the feeling that he was imposing upon the Director's time and no one ever left him without an inspiration and a renewed desire to give to his fellows the best that was in him. This feeling of devotion to work and inspiration to live for the welfare of society has pervaded not only his faculty but the student body. His ability to inspire men is Director Bailey's greatest gift to mankind and has endeared him to all who have been privileged to work under his wise guidance.

W. A. STOCKING, JR.

Release

One day
I went
To the fields to rest.
The sun
Hung low
On the rim of the West.
A sparrow
Chirped
As it dropped to its nest.
And my soul
Had found
The boon of its quest.—L. H. B.

L. H. BAILEY FROM THE STANDPOINT OF A FARMER

THE Cornell College of Agriculture has been twice fortunate in that it has had as its head two men each of whom did a unique and fundamental work in his generation.

It was Robert's happy lot to come to his task just when it was necessary that a man should arise to interpret the findings of a new agriculture to common men, who were sometimes contemptuous and often suspicious and unconvinced.

And Bailey has done for us a later and a very different work, for just when those who were teachers babbled of fertility and crops and cattle as the end and the highest good of agriculture, Bailey lifted up his voice to insist that these were not the only things worth while.

And so it has come to pass that in remote mountain hamlets hard-handed men from the furrows speak with heartiest admiration his name—not as

a horticulturist or even as the head of a great college but rather as the Prophet of the Soil. We can never know how much he has done to found a new philosophy of country living and to make men see how well worth while are the church and the school and the other agencies that speak to the hearts of men.

And we think of him not as one who dwelt apart, but as one who has not forgotten nor is out of fellowship with him

"Who plows with pain his native lea,
And reaps the labor of his hands."

This is not too much to say—that he has done more than any man to build a working creed of the doctrine that the farmer is greater than the farm, and for this the farmers of this state and other states give him honor and God-Speed.

JARED VAN WAGENEN, JR.

L. H. BAILEY FROM THE STANDPOINT OF A STUDENT

DIRECTOR Bailey has accomplished much in the field of Agriculture. Many and varied have been his interests and activities. But whatever the future may bring to us from him, in no manner will his work be longer perpetuated than through the impression that he has left on the minds and hearts of the men and women who labored under his guidance during the years of their college life. This is his best and noblest work.

It is not easy to analyze this impression and the writer has no intention of attempting to do so. It is sufficient to say that we all have felt it and have been the better because of it. The hold that he has and shall always have on his students has been demonstrated in a manner that leaves no doubt as to

its genuine nature. He has taught us that there is something more to farm life than the endless round from milking time to milking time; that there is the sky and the hills, the birds and the flowers, and that there is the soil with all its possibilities given us in trust to till, but never to despoil. We have welcomed the monthly assemblies because we came away with new thoughts new points of view, and resolves more high and worthy. We shall miss the familiar figure in his office at the right as we enter the main building, where we all were wont to look. But there remains to us as a priceless heritage the memory of those days our Dean worked and wrought so nobly among us because he worked with men and women.

H. B. KNAPP.

L. H. BAILEY AS A MAN

THE world will remember Dean Bailey in many ways: as a student, an author, a broad educator, who injected effectively into American education a new type of school effort in keeping with the outlook and work of the common day. But to his neighbors and friends this greatness of achievement recedes into the background to give way to those deep feelings of esteem for him as a man. His quiet, patient, unceasing toil from day to day has left a monument to the force of persistence. No task was too difficult; no day too long for legitimate and effective toil.

Patience under all circumstances made Dean Bailey a great teacher and administrator. Perhaps no one can fully realize the difficulties that a man in his position is compelled to meet, but patience carried him on with each day bringing its justification.

A student of life and men of all classes, living close to them, "Our Dean" intuitively expressed that definition of culture "to see from the other man's point of view;" and so no trace of inherited or environmental prejudice

ever dulled his understanding of the other man's philosophy of life here or hereafter.

But his great catholic spirit held itself in check in accordance with the material requirements of the day: he was never a revolutionist but slowly, in keeping with the capacity of those with whom he labored, he directed and "re-directed" evolutionary processes. He would not break with the old until the new had proven itself. So doing he left a lesson of loyalty to friends and to officials that remains a priceless heritage for succeeding generations.

Such a spirit is not to be analyzed any more than some rare bit of nature's handiwork. It must be seen: it must be felt. His neighbors know: his friends know. When the stately figure walks the Campus some will say, "There is an educator!" Others will say, "There is a scientist!" But as he walks the paths and roads among his people who do the day's work, his neighbors will say, "There walks a man."

C. H. TUCK.



TWO FACULTY BASEBALL TEAMS. PHOTOGRAPH TAKEN IN 1908.

A PARTIAL BIBLIOGRAPHY OF BOOKS AND PAMPHLETS WRITTEN AND EDITED BY L. H. BAILEY

BOOKS AND PAMPHLETS WRITTEN

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Annals of Horticulture in North America.
Apples.
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College of Agriculture and the State, The
Cross Breeding and Hybridizing with a Brief Bibliography on the Subject.
Elementary Textbook of Botany.
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Farm and Garden Rule Book (The Rural Manuals).
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 Horticulturist's Rule Book.
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DEAN BAILEY WITH A CLASS IN THE FIELD.

Rural Wealth and Welfare. By G. T. Fairchild.

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Farm Poultry. George C. Watson.

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- Manual of Gardening. By L. H. Bailey.
- Manual of Farm Animals. By M. W. Harper.
- Farm and Garden Rule Book. By L. H. Bailey.

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- Manual of Cultivated Plants. By L. H. Bailey.
- Manual of Home Making.

The Rural Text Book Series:

- Beginnings in Agriculture. By A. R. Mann.
- Elements of Agriculture. By G. F. Warren.
- Principles of Soil Management. By T. L. Lyon and E. O. Fippin.
- Southern Field Crops. By J. F. Duggar.
- Plant Physiology with Relation to Crop Production. By B. M. Duggar.
- Human Nutrition. By W. H. Jordan.
- Manures and Fertilizers. By H. J. Wheeler.
- Corn Crops. By E. G. Montgomery.
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- The Cotton Industry. By R. J. H. DeLoach.
- Principles of Plant Breeding. By Webber, Gilbert and Love.
- Poultry Husbandry. By J. E. Rice.
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- School Readers. By L. H. Bailey.

Standard Cyclopedias of Horticulture. Four volumes by L. H. Bailey.

EDITOR'S NOTE.—Dean Bailey also wrote 60 Experiment Station bulletins and edited many more than this at Cornell.

SOME OF THE HONORS THAT HAVE BEEN CONFERRED UPON L. H. BAILEY

Liberty Rock Valley:

resident Roosevelt has appointed the first Federal Commission on Country Life. He has chosen you leader of this movement. We desire to express our feeling of pride in this recognition of you, our Dean.

Appreciating the influence of your administration of our College, and the inspiration of your counsel, we present this expression of our esteem.

This Third day of December, One thousand nine hundred and eight.

SCROLL PRESENTED BY THE STUDENT BODY WHEN DEAN BAILEY WAS APPOINTED
CHAIRMAN OF THE COUNTRY LIFE COMMISSION.

His sixth day of June, 1903, marks
the twenty-fifth anniversary of the marriage
of Liberty Hyde Bailey and Annette Smith.

Conscious of the high ideals and unselfish devotion to others
of both husband and wife during these twenty-five years,
we, the staff of the New York State College of Agriculture, welcome this opportunity to express our appreciation of such useful living.

Mrs. Bailey, deep in the social life of the College, you have left an enduring impress.

Dear Bailey, fixed in the minds of your co-workers is a clear conception of your personality. Sympathetic, open-minded, always fair, you have ever been keen as an investigator, inspiring as a teacher, lecturer and author, resourceful as an editor, masterful as an administrator.

May this simple remembrance of your friends, working in a common cause, inspire that light of exemplary leadership thrown from your two lives of service.

J. H. Comstock	Mr. & Mrs. G. C. Becker	Prof. & Mrs. T. C. Clark
John Cooley	C. W. St. G. Clark	W. H. & Mrs. J. F. Case Tolson
John Craig	Mr. & Mrs. G. R. Mann	E. J. Clegg
Raymond A. Pearson	Miss Mrs. C. A. Pebble	Dorothy Radford
Lucius H. L. Lyon	J. A. Eggers	L. Chester Bradley
Mark H. Parker	C. F. Clark	Lorraine Antiehlid
Wm. & Mrs. G. E. Stone	Mark H. C. Pyle	Helen Ferguson
Wm. & Mrs. J. A. Steele	E. D. Nelson	Minnie Jenkins
Wm. & Mrs. G. F. Warren	Matthew H. Estes	Ado E. Johnson
Wm. & Mrs. G. T. Warren	C. A. Johnson	Geo. T. Craft
Wm. & Mrs. G. T. Warren	Paul J. McIntire	Elmer Edsinger
Wm. & Mrs. G. T. Warren	Albert G. Clegg	Fran Lowman
Wm. & Mrs. G. T. Warren	W. H. Jackson	O. S. May, Jr.
Wm. & Mrs. G. T. Warren	Edgar R. Minne	Mr. & Mrs. Willard M. Tolson
Wm. & Mrs. G. T. Warren	Wright C. Scott	W. H. & Mrs. G. L. Tolson
Wm. & Mrs. G. T. Warren	A. M. Hall	W. H. & Mrs. W. L. Tolson
Wm. & Mrs. G. T. Warren	W. C. Miller	G. L. Tolson
Wm. & Mrs. G. T. Warren	W. C. Miller	Surnames of C. Remond
Wm. & Mrs. G. T. Warren	W. C. Miller	W. C. Miller
Wm. & Mrs. G. T. Warren	W. C. Miller	K. J. Moore
Wm. & Mrs. G. T. Warren	W. C. Miller	Clara Honeycutt
Wm. & Mrs. G. T. Warren	W. C. Miller	Mr. & Mrs. C. L. Remond
Wm. & Mrs. G. T. Warren	W. C. Miller	Franklin Tolson

SCROLL PRESENTED TO DIRECTOR AND MRS. LIBERTY HYDE BAILEY, JUNE 6, 1908.

DIrector Bailey seeks results rather than honors. This is distinctly characteristic. It stands out conspicuously to all who know him. The greatness of his accomplishments

and the wide range of his activities have brought Director Bailey unusual recognition from many organizations, institutions, and individuals. These indicate, more accurately than any

other form of action could do, the estimate that men of science, literature and business place upon Director Bailey's contributions to the world. They represent the spontaneous desire of leaders, in their respective fields, to do honor to one who has earned the right to bear the title or enjoy membership which they confer.

A partial list of formal honors here enumerated indicate Director Bailey's versatility and the wide range of his activities.*

Memberships:

Honorable and Corresponding member of the Royal Horticultural Society of England.

Honorable member of the Horticultural Society of Norway.

Honorable member of the American Philosophical Society.

Honorable member of the Philadelphia College of Pharmacy.

Honorable member of the Rhode Island Horticultural Society.

Member of the American Association for the Advancement of Science.

Trustee of the American Scenic and Historic Preservation Society.

Corresponding member of the Massachusetts Horticultural Society.

Member of the American Pomological Society.

Member (Ex-President) of American Association of Agricultural Colleges and Experiment Stations.

Member of the New York State Grange.

Member of the New York State Agricultural Society.

Member of the Western New York Horticultural Society.

Member of the Michigan Horticultural Association.

Fellow of the American Academy of Arts and Sciences.

Medals:

Veitchian medal of the Royal Horticultural Society.

Wilder Medal of the American Pomological Society.

Commissions:

Chairman of the Roosevelt Country Life Commission.

Chairman of the New York State Park Commission.

Chairman of the New York State Agricultural Advisory Board.

Degrees:

B.S. Agriculture, Michigan Agricultural College.

M.S. Michigan Agricultural College.

L.L.D. of Alfred University.

L.L.D. of Wisconsin University.

Positions:

Professor of Horticulture Cornell University, 1888-1903.

Dean and Director New York State College of Agriculture at Cornell University, 1903 to 1913.

More valuable and more significant than degrees from great Universities, or medals from scientific societies, or honorable membership in international organizations, or chairmanships of national and state commissions, are the expressions of appreciation, loyalty and love from his associates, as manifested by tokens, words and deeds. These are personal. They are from the heart. The greatest honor that has come to Director Bailey is the loyalty of his co-workers.

RESOLUTION PRESENTED TO DEAN BAILEY BY HIS COLLEAGUES ON JUNE 17, 1913, BEFORE IT WAS KNOWN THAT HE HAD RESIGNED THE DEAN AND DIRECTORSHIP.

To Dean Bailey:

We, the Faculty of Agriculture, wish to express to you, Dean Bailey, our keen appreciation of your labors for the College of Agriculture before the Legislature and elsewhere during the past year, and to congratulate you on your success in securing for the College the means by which its work can be carried forward. We recognize that the task has been accomplished this year under peculiarly trying circumstances.

We believe that the policy for agricultural education in New York State for which you have stood is sound and in the end must prevail.

We wish again to pledge to you our most earnest support and cooperation in the work that is still to be done. We assure you of our desire to promote the welfare and service of the College under your leadership so as to justify the confidence of the people of the State as expressed by the generous support they have given to the College under your administration.

*The list is as complete as could be secured without consultation with Director Bailey.

Because of his high ideals of manhood and womanhood, his exceptional executive ability, his prophetic vision, his fortitude under trying circumstances, his courage to stand steadfast for what he believes to be right, and because of his broad human sympathy and faith in humanity, Director Bailey has inspired a type of loyalty from his associates that manifests itself in a desire for accomplishments on the part of faculty, students and others, that will be worthy of the confidence and friendship of a great leader: It is a live loyalty rather than a blind adoration that Director Bailey inspires. It is a loyalty that feels, thinks and acts. The resolutions that have been presented and the tributes that have been paid to Director Bailey, by the faculty and students of the Agricultural College, provide the key to the lock which reveals the secret of his great success as teacher, investigator, editor, poet, Dean and Director. The resolutions and gifts represent spontaneous expressions on occasions of special rejoicing or grave crises in the history of the State College of Agriculture.

This loyalty is but the reflection of Director Bailey's own attitude toward his superiors. Loyalty is the dominant note of his life. It was clearly exemplified in his administration of the College of Agriculture.

J. E. RICE.

ADDRESS DELIVERED TO DIRECTOR BAILEY ON JULY 31, 1913, THE DAY THAT HE RELINQUISHED THE DEAN AND DIRECTORSHIP, BY MEMBERS OF FACULTY THEN IN CITY.

"ITHACA, N. Y., July 31, 1913.

Professor L. H. Bailey,
Director of the New York State College of Agriculture.

Dear Friend and Colleague:

We come as representatives of the Faculty of Agriculture to express the regrets of this Faculty that you are about to retire from the position of Director of this College.

The Faculty would have come in a body to bring this message to every member of it shares these regrets, but it was felt that a less formal procedure would be more acceptable to you. Still we could not let this day pass without expressing to you our feelings.

The present successful condition of this College is due to the combined efforts of many earnest men

and women devoted to the cause of agricultural education; but every one of these workers realizes that the opportunity for doing this work in so successful a way is due more largely to your efforts than to any other cause.

The confidence which the people of the State have in you is the chief cause of the magnificent material support that has been given the College.

Your breadth of view in organizing and administering the College has enabled your colleagues to work in a much more efficient manner than would have been possible under less wise leadership.

You have laid the foundation of a broad College of Agriculture and have built on this foundation an institution that stands forth as an ideal of what a College of Agriculture should be.

The practical phases of agricultural education are well cared for. Instruction in the sciences upon which intelligent agricultural practice must be based is provided. Opportunity for original investigation is offered, and the means of publishing the information obtained is well systematized.

Not only are the needs of the students that come to the College provided for; but through the extension department and the cooperation of members of the staff with that department any tiller of the soil in need of help can obtain the best available information.

This is the kind of institution that you have organized and brought to a high degree of efficiency.

We wish that it were possible for us to continue to work under your wise leadership. But we are sure that your influence will remain with us; that we shall continue to try to realize the ideals that you have established. The momentum obtained is so great that the institution is bound to continue its work along the lines laid out by you.

We know that your work here has not been an easy task; that there has been much to trouble and perplex you. But the head of a college never had a more loyal and devoted following in his faculty than you have had.

And while you are to leave us for the sake of a freer life, do not think we are jealous of what takes you away from us. Although we are borne down by the sense of our loss and the loss of the College, every heart rejoices that you are to have what you have longed for during these years when you have been fettered by administrative work.

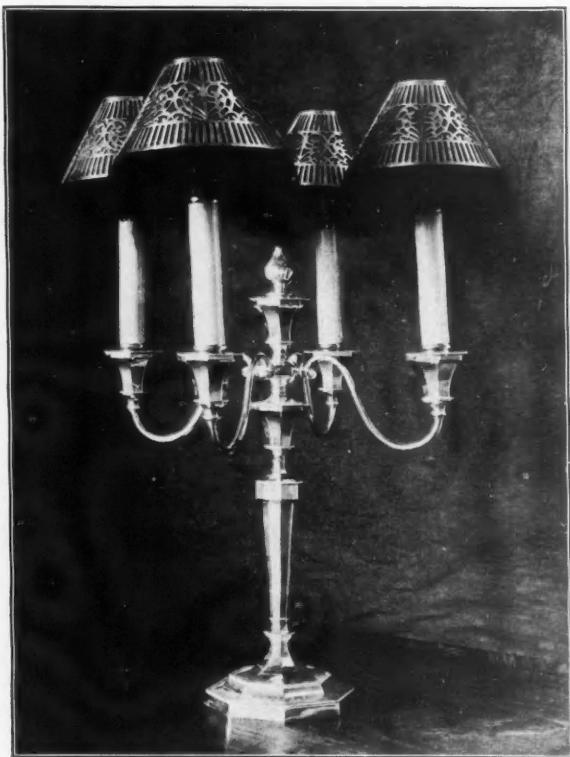
We shall hope that you will keep us close to you as friends, though we may no longer be colleagues, and that through our sympathy with your ideals we may proudly share your future work."

**ABSTRACT AND QUOTATIONS FROM
THE CORNELL COUNTRYMAN,
VOL. VI, NO. 2**

On the occasion of the 25th marriage anniversary of Director and Mrs. Bailey the instructing and investigating staff of the New York State College of Agriculture and their wives visited the Bailey home en masse and in true surprise party form presented a silver candelabrum and a scroll on which had been placed the greetings and the signatures of every member of the staff.

The occasion was one ever to be remembered by all who had the privilege of witnessing this magnificent testimony to Director and Mrs. Bailey.

It was pointed out that the five lights of the candelabrum symbolized most appropriately five distinct fields



THE CANDELABRUM PRESENTED BY THE FACULTY OF THE NEW YORK STATE COLLEGE OF
AGRICULTURE, JUNE 6, 1908 TO DIRECTOR AND MRS. BAILEY ON
THEIR 25TH MARRIAGE ANNIVERSARY.

of usefulness to the world of the two, in whose honor the Faculty had assembled.

One light stood for literary achievement,—the trenchout pen that had written or edited more than fifty books. His other publications alone would have constituted a great life work.

Another light represented the educator. It reflected Director Bailey as a teacher, lecturer, scholar, where he excelled because of his great power to establish ideals and inspire effort in others.

A third light represented the investigator. It symbolized Director Bailey's rare power of generalization by which he had enunciated principles and revealed laws of life.

The fourth light symbolized the Director as administrator. Clearly the mind recalled the great growth of the Agricultural College since its reorganization: the massive buildings, the splendid equipment, the large Faculty, the five hundred students, and realized that Director Bailey more than any other person, was responsible for this great development, due to his ability as an educator, to his persistence, patience courage, frankness, well balanced judgment and enormous capacity for work.

The open hearth, good cheer and warm welcome found by every one who ever went to the Bailey home was typified by another candle, appropriately placed in the center.

The response by Director Bailey was characteristic, modest, and inspiring. He expressed his appreciation for the renewed evidence of confidence and friendship and stated that the loyal support, the harmonious and universal good feeling which had always prevailed in the Agricultural Faculty at Cornell was a source of great satisfaction and strength, without which, substantial progress could not have been made. He stated that his policy had always been to encourage rather than to direct; that he advised freely with the whole Faculty and did not believe in "star chamber" administration; that on account of the pride which he felt in what he believed to be the strongest Faculty in any Agricultural College, his part in the organization of the College of Agriculture was pleasant.

Director Bailey then paid a glowing and generous tribute to his predecessor as Dean and Director, Professor I. P. Roberts, whose years of faithful, patient, effective work as teacher, farmer, and administrator, he said, made possible the recent growth of the College.



The Country School.

There certainly will come a day
As men become simple and wise,
When schools will put their books away
Till they train the hands and the eyes;
Then the school from its heart will say
In love of the winds and the skies:

I teach
The earth and soil
To them that toil,
The hill and fen
To common men
That live just here;

The plants that grow,
The winds that blow,
The streams that run
In rain and sun
Throughout the year;

The shop and mart,
The craft and art,
The men to-day,
The part they play
In humble sphere;

And then I lead
Thro' wood and mead
By bench and rod
Out unto God
With love and cheer.
I teach.

—L. H. B.

The Cornell Countryman

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DECEMBER, 1913

**The Bailey
Number**

In planning this number we had to gather the material without Dean Bailey's knowledge. The material is, therefore, incomplete in some cases. The poems were taken from the Rural Leaflets.

The advice and help of Dean Bailey's friends was very essential, especially from certain members of the faculty. Without exception, this help and advice has been given generously and gladly. We take this opportunity to express our gratitude.

**To the
Winter
Course
Students**

It is characteristic of the College of Agriculture to welcome any person who earnestly seeks after knowledge. Ezra Cornell stated that his purpose in founding this University was to provide instruction for any man in any subject. If he were alive today, the earnestness of the Winter Course Students as a whole

would be a source of satisfaction to him.

In this spirit THE COUNTRYMAN welcomes the Winter Course Students. Absorb enough of the spirit of this institution to take some of it back to your communities. In order that you may do this, we urge you to partake in all the activities of the college.

**York State
Rural
Problems** Volume I, by L. H. Bailey. 261 pages. Published by the J. B. Lyon Company, Albany, N. Y. Price \$1.00.

An attractive collection of Dean Bailey's lectures and short writings. The chapters have grown out of the author's personal experience and are the result of definite work and study when the problems were up for consideration. There is a wonderful amount of agricultural statesmanship contained between the two covers of this book.

There are twenty-five chapters. Some of the more important are entitled, The Farm Bureau Idea, The Hill Lands of New York, Manual Training by Means of Agriculture, The Survey Idea in Country Life Work, Woman's Place in a Scheme of Agricultural Education, The Place of Agriculture in Higher Education, Dry Farming in Relation to New York Conditions, The Playground in Farming Communities.

Copies of the book have been placed for inspection at various places in the college.

**Social
Activities** A meeting was recently held in order to discuss the social activities of the college. Those present were the President of the

Agricultural Association, three representatives from the Girls' Club, and the presidents of the classes.

The following conclusions were reached:

(1) That it should not be taken for granted that dancing is absolutely essential to a class meeting. That it should not be the major part of a class meeting.

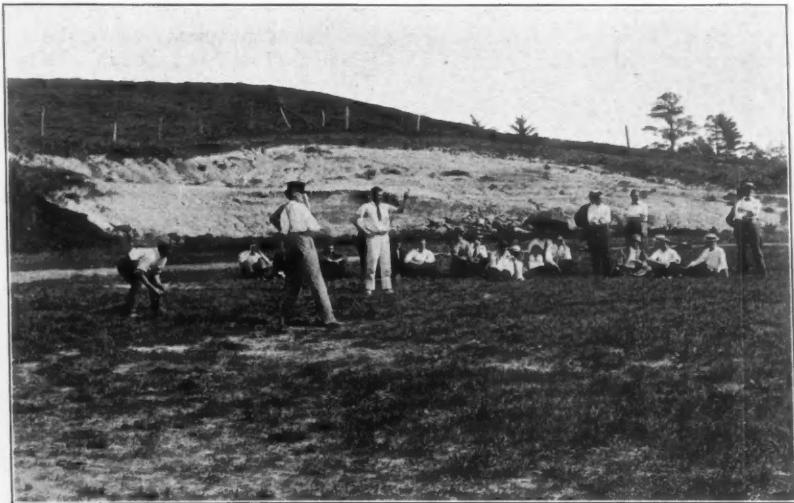
(2) That the attention of the classes should be directed toward the development of other amusements and toward getting all the students acquainted with each other. Several suggestions were made.

(3) That about 75 per cent. of the students dance but a part of these do not dance at social functions because

an effective system of introduction is usually lacking.

(4) That class meetings are held too often in some cases; that they should not interfere with assemblies and other university or college activities. Bi-monthly meetings were recommended instead of monthly meetings. It was suggested that more frequent meetings of sophomores and freshmen may be reasonable in order to get these underclassmen acquainted with their classmates. That the meetings if less frequent could be worked out more successfully and be less dependent upon dancing.

(5) That the division of classes because of dancing has not become serious.



DEAN BAILEY AT BAT.

CAMPUS NOTES

On Thursday, November 6, the second monthly Assembly of the College was held. One of the pleasing features was the very pretty floral decoration, which consisted of a background of palms with settings of white and yellow chrysanthemums. After a short musical program, Acting Director Stocking spoke to the students. He thought the corrected total registration in the College of interest and stated the following figures. Of those enrolled there are 401 Freshmen, 341 Sophomores, 294 Juniors, 205 Seniors and 113 Specials, making a total of 1354. This registration makes the Agricultural College the largest in the University, the College of Arts and Sciences coming next with a registration of 1120. In addition to the undergraduate body there are 136 graduate students which brings the total number up to 1490. It was also interesting to note the number of women registered in the College. Of these there are 176 regulars and 19 specials making a total of 195. One hundred and sixty are taking Home Economics, 30 General Agriculture and 5 Landscape Art. Compared with the registration of last year, which was 169, this shows an increase of 26. The Acting Director stated that there was a general idea prevalent, that the rapid and large growth of the College was due to the free tuition given to those who live in the State. To refute this idea he stated that while the increase in this year's registration over last year was only 14.5%, the increase in the number of students paying tuition was 115.5%.

As in politics so too in agriculture the people of the State know what they want and get it. The young people of the state know that training in agriculture is a very desirable kind of education to have, and they are getting it, which is a very good indication of the agricultural future of this country.

The Director called attention to the student activities, particularly those of a social nature. The students had

been asked to consider the matter, especially in relation to the method of conducting class meetings and the like. The attitude which they took in deciding the general policy was very gratifying and was something of which the College should be proud. He pointed out that a true democracy was one in which everyone had a part, but in social units there was a tendency for groups to form, some caring for one thing and some for another. A condition results where one faction leads and the other either sits back doing nothing or stays at home. He applauded the present attitude which makes this condition of affairs impossible, and which will not allow a person to stay away because the entertainment was interesting only to a few. The attention of the students was called to the change in the method of celebrating Halloween. Twenty years ago it was customary to "find things where they were not the night before." The conduct of the boys particularly, merged into rowdyism and generally vandalism. In contrast to this he warmly praised the party which was held in the Home Economics Building. He said that the change in the type of entertainment indicated a general and wholesome evolution in the ideals of manhood and deportment. The attitude of the students in entertaining was also to be praised, for the work was carried on entirely by the students, who arranged the preparations, conducted the affair and cleaned up afterward. This was worthy of notice because the general tendency at this time is to have everything arranged by someone hired from the outside, and this means that half the joy of active participation is lost. It was pointed out that the tendency to tie up student activities in teams was losing its force, and that now activities of the playground type were coming to the front. There is a movement on foot to have a playground for the women students in the College. He said that another habit of great value was the tendency

of the students to do the work in connection with social functions. This was shown in the floral decorations of the evening and the very successful Flower Show which was held on Saturday. It was also shown in the Fruit Show, then in progress. He urged the students to get people to come to the Farmer's Week, especially the young people because it would give them a different outlook on life, making them see the greater possibilities in agriculture and look forward to something more than the daily routine. A little thing like this might change their entire idea of training. The Director called especial attention to the fact that quality does not depend on size, and while the College has had a rapid growth it did not mean that its ultimate efficiency or total value had increased the same way. There were not enough men in the United States to take up the work of teaching, and this made the election of younger men to the faculty necessary. This naturally tends to give a lower grade of work, and it can only be offset by the personal attitude of the students. The point was made that a man's efficiency depended on three things. First, the natural ability of the man, which is fixed, second, the preparation he has had, which although in his own hands is largely past history, and third, the energy and faithfulness with which he applies himself.

The latter factor is in his own hands and is the one he must exercise in order to keep up the standard. While the entrance work is laid down, the personal attitude is not, and it is the attitude in the students, to do good work, which will make the College a success.

* * *

Professor D. Reddick addressed the Maine State Pomological Society at their annual meeting held at Lewistown, November 19, taking for the subject of his address "Some Essential Factors in Effective Orchard Spraying."

* * *

For three years in succession, the New York State Federation of Woman's

Clubs has given a scholarship of \$200 to a student in the Home Economics Department. This scholarship has been awarded this year to Miss Claribel Nye. The award is made on the basis of scholarship, and the ability to carry the work of the Department out among the women of the state.

* * *

A prize of \$25.00 was offered last year to a junior or senior of the Department of Home Economics for the best essay on the subject of "Child Welfare." The prize was given by the New York State Mother's Assembly. It was awarded to Miss Natalie Thompson, '14. Her essay was a discussion of the reform methods employed at Sleighton Farms in Pennsylvania, to which place hundreds of juvenile offenders are sent annually by the juvenile courts of that state. The subject of the essay was "Sleighton Farms."

* * *

The sixth annual meeting of the American Home Economics Association was held at Cornell University, Ithaca, N. Y., June 27th, to July 4th, 1913. The meeting was the largest and the most enthusiastic ever held by the Association. There were representatives from thirty of the states, the District of Columbia, from the Provinces of Canada and from France, Scotland and Russia. The sessions were so arranged that no day held more than two and they rarely exceeded the planned two hours.

The President of the Association is Miss Sarah Louise Arnold, Dean of Simmons College, Boston; the secretary is Miss Isabel Ely Lord, in charge of Domestic Science, Pratt Institute, Brooklyn. Other officers of the Association represent leading institutions in the country.

The program was divided into institution economics, social economics and the interests of the home. The methods of teaching Home Economics occupied a good share of the program, while practical subjects were constantly interspersed.

The complete list of Hebs-sa is as follows: Max Flavel Abell, Harry Devoe Bauder, Lawrence Julius Benson, Errol Stanley Bird, Francis Henry Durkan, Theodore Osborne Gavitt, Edward George Greening, Harold Francis Keyes, Frank Waldo Lathrop, Mark Emerson Maxon, Benjamin Patterson, Jr., Francis Elton Rogers, Bernard William Shaper, Robert Charles Shoemaker, Raymond Frederic Steve, John Judson Swift, John Robert Teale, Stanley Hedrick Watson.

* * *

The complete list of Helios is as follows: Manuel Joaquim Barrios, Jr., Fayette Hinds Branch, Samuel Stockton Burdge, Ferd John Burgdorff, David Story Caldwell, Leslie Ellsworth Card, Arnold Eaton Davis, Cedric Hay Guise, Harry Hazleton Knight, Harold A. D. Legget, Sherman Ray Lewis, Walter Haslam Lewthwaite, James Edward McGolrick, William Irving Myers, Charles Henry Ott, Jr., Burleigh Names Phelps, Gamaliel Sanford Rose, Harry Van Taylor, Charles Welch Thornell, Samuel Gibson Updegraff, Jr., John Gerow Wilkin, Mereedith Chester Wilson.

* * *

Prof. H. H. Whetzel who is on sabbatical leave spent two weeks in June on a botanical excursion in Denmark and in visiting Dr. F. Kolpin Ravn in Copenhagen. In July he visited numerous pathologists and florists in Holland where he searched especially for peony diseases. Most of the summer was spent in the Harz Mountains learning to speak German and collecting fungi. In Copenhagen and Berlin Prof. Whetzel purchased for his department a number of rare books of pathological interest, some of which have already been shipped to Ithaca. Professor Whetzel is now located at 22 Uferstrasse Pension Schlossblick, Heidelberg, where he is doing special work in plant physiology under Prof. Klebs.

* * *

The Roundup Club has adopted the plan of appointing three members at each meeting to read the publications of the week and report anything of

interest to the club at the following meeting. The speakers at the club through the month were Professors Harper, Rice, and Wing. An account of their experiences at the National Dairy Show at Chicago was given by the members of the Stock-Judging Team. Professor Wing followed in a discussion of the show and the element of chance in the judging of stock.

* * *

The Department of Farm Mechanics has obtained a new gas engine "Mogul" tractor. The machine is a new type and the smallest of a series of tractors which have been developed as a result of research work on the gas engine. It is a low slung and more compact machine than the ordinary form, two cycle opposed, with 12 draw-bar, and 25 engine horsepower. It was bought from the International Harvester Co., and will be used by advanced students for practice in adjustment and handling.

* * *

Mr. Frank B. Moody, of the Department of Forestry, is inspecting the reforesting work of the city of Rochester, N. Y., which is going on at Hemlock Lake, and he will probably make some suggestions for the future development of this city's activity. About 200,000 trees have been planted on the shores of the lake during the past few years and the seedlings, first planted, have grown rapidly. The same plan will be followed at a future date along the shores of Canadice Lake.

* * *

Mr. Alfred C. Hottes, B.S., '13, has been appointed assistant to Prof. White in the new Floriculture Department. Mr. Hottes was assistant in the Farm Course last year. He is working for his M.S.A. degree.

* * *

The fruit growing contest in Washington on November 18 was won by Missouri. The Cornell team placed second. The members of the team were D. Alleman, H. C. Knandel and D. B. Perry. D. Alleman won a purse offered to the individual making the best rating. A full account of the contest will be given in a later number.

FORMER STUDENT NOTES

'07, B.S.A. and '08, A.M.—Alfred G. Hammar was accidentally shot and instantly killed, while on a hunting trip near Roswell, New Mexico, October 15, 1913.

Mr. Hammar was born May 19, 1880, at Brömestad, Sweden. As a boy he was much interested in natural history and at the age of sixteen, full of desire to study first-hand the tropical fauna of which he had read marvelous accounts, he went to Brazil. There he obtained employment in a drug store in the State of São Paulo and immediately improved his opportunities to study not only the zoology, but also the botany of the region. He quickly attracted the attention of prominent scientific workers and, before long, secured a position with the Comissão Geográfica e Geológica de São Paulo, in the Division of Botany and Meteorology. He also accompanied a German scientific expedition on an exploring trip through parts of Brazil.

His interests had always been along entomological lines and he showed so much promise that his chief, Orville A. Derby, C. U., '73, advised him to come to Cornell to study with Professor Comstock. This he did, arriving here in the spring of 1903.

Though Mr. Hammar was handicapped by the facts that he knew practically no English and that he was wholly self-supporting, his ability and zeal were such that he completed his course with honor in the minimum period and graduated with the class of 1907. He was then appointed Assistant in Entomology and, carrying on his graduate work in the summer of 1907 and the following year, received the degree of Master of Arts in 1908.

In the spring of 1908 he secured a position with the United States Bureau of Entomology and very soon was regarded as one of the most reliable and promising of the young men in the service. He was given assignments of increasing responsibility and had charge on special investigations in the

States of New York, Michigan, and California. At the time of his death he was in charge of an important substation maintained in New Mexico. He had published a number of valuable researches dealing primarily with insects affecting deciduous fruits.

He had been married only two months before his death, to Miss Marion Hornor, of Parkersburg, West Virginia. He and his bride were to have left in a few days to visit her parents in West Virginia and from there they were to sail for Sweden, his boyhood home.

Mr. Hammar was by no means a narrow specialist but was broadly trained and interested. He was a skilled artist, and used readily seven different languages. While here he was prominent in student activities. He was one of the organizers and leading spirits of the Cosmopolitan Club and editor of the first *Cosmopolitan Annual*. He was also active in the organization of the Agassiz Club, a member of Sigma Xi and of the graduate scientific fraternity, Gamma Alpha. Wherever he went he was beloved and his death is felt as a personal loss by the many who knew him.

'85, B.S.A.—C. E. Amorosa, of Lima, Peru, announces that he has given up practical agriculture after several years of experimental work on his estate. Mr. Amorosa has embodied the results of his experiments in a book, "Diario Rural."

'01, W.C.—Mr. Bert Van Vleet is now pastor of churches in the Adirondacks with headquarters at Umsteadville, N. Y. He is much interested in the improvement of agricultural conditions in his region.

'03, B.S.A.—Arthur W. Cowell, who since his graduation has been engaged in practical work in Pittsburgh and Philadelphia, is now professor of Landscape Gardening at Pennsylvania State College.

'03.—Mr. J. O. Hopwood has been appointed assistant professor in Biology in the Central High School of Philadelphia.

'03, M.S.A.—Dr. John P. Stewart was married early in September to Miss Isabel Montgomery of Milton, Pa. Dr. Stewart is Professor of Experimental Pomology at the Pennsylvania State College of Agriculture.

'04, B.S.A., '06, M.S.A.—Mr. W. F. Fletcher has since graduation been engaged in the Fruit District and Fruit Production Investigations. He is at present in charge of the B. P. I. Experimental Farms at Arlington, which is just across the Potomac River from Washington, D. C.

'05, B.S.A.—George Bush has recently been appointed "Farm Doctor" of Oneida County, N. Y. His practice consists in visiting the farms in that community and prescribing scientific methods for curing poor crop yields.

'05, W.P.C., '07, Special—Miss Clara M. Nixon is now located at the Oregon Agricultural College at Corvallis, Ore.

'05, Ph.D.—Dr. G. F. White, the foremost authority in the world on the subject of bee diseases, has returned to Cornell to conduct some research work in the Departments of Entomology and Plant Pathology. Dr. White was formerly an instructor in Bacteriology in the Veterinary College. Since leaving, in 1906, he has taken his M.D. degree and entered the United States Department of Agriculture. He has carried on his work in many European countries as well as in America.

'06, W.P.C., '07 Special—Alfred E. Boicourt was married last February to Miss Emma Worden. They now live at Ambler, Pa., where Mr. Boicourt is Instructor in Poultry Husbandry at the Pennsylvania School of Horticulture for Women.

'06, W.D.C.—The agricultural department of the Good Will School at Hinckley, Me., in charge of E. M. Santee, made an excellent showing at the recent Waterville Fair. Among the prizes won were two firsts by his cattle, every first in their class by his

six horses, a blue ribbon by a two year old Ayrshire, three firsts by poultry, a second and two thirds on butter, and numerous other prizes.

'11, B.S.A.—Waldemar H. Fries is with the International Agricultural Corporation, Marine Bank Building, Buffalo, N. Y.

'11, B.S.A.—Thomas Bradlee, who has been an instructor at the Smith Agricultural School at Northampton, Mass., for several years, has been appointed director of the agricultural extension service, which has been inaugurated at the University of Vermont this fall, in accordance with an act of the General Assembly.

'13, W.P.C.—E. S. Parsons has charge of the extensive poultry enterprise of the Honorable Seth Low, Ex-Mayor of New York, at Bedford Hills, N. Y.

'13, B.S.—Gilmore D. Clarke is in the office of Charles D. Lay, landscape architect, 15 East Fortieth Street, New York.

'13, B.S.—Mr. C. S. Stowell has charge of a large market milk plant at Cooperstown, N. Y.

Some of the former students employed in the Department of Farm Management of the U. S. Department of Agriculture are: '07, M.S.A.—L. G. Dodge; '09, M.S.A.—H. R. Cox; '09, B.S.A.—E. H. Thomson; '09, B.S.—C. M. Bennett; '09, B.S.A.—G. H. Miller; '10, Sp.—H. R. Cates; '11, B.S.—H. N. Humphry; '11, B.S.A.—A. K. Rothenberger; '12, M.S.A.—L. G. Connor; '12, B.S.—H. B. Munger; '12, Sp.—H. G. Straight; '13, B.S.—R. W. Jones.

Some of the former students who are county agents in the Farm Advisory work are: '05, B.S.A.—G. W. Bush, Oneida County; '07, B.S.A.—C. B. Tillson, Clinton County; '08, B.S.A.—C. J. Grant, Mansfield County, Mass.; '09, B.S.—F. E. Robertson, Jefferson County; '10, B.S.—G. P. Scoville, Chemung County; '12, B.S.—Jay Coryell, Windsor County, Vt.; '12, B.S.—H. B. Rogers, Chautauqua County.

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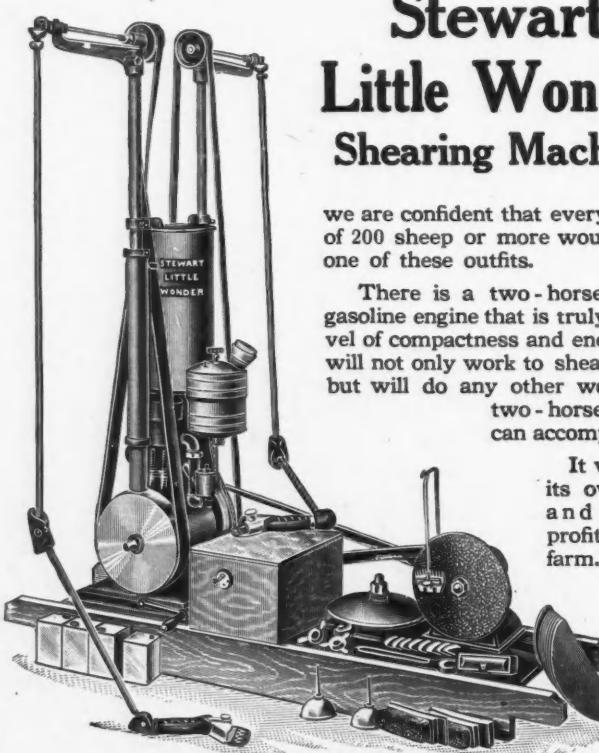
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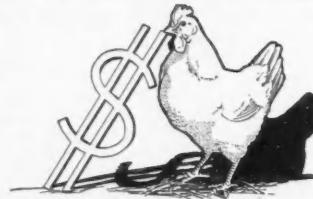
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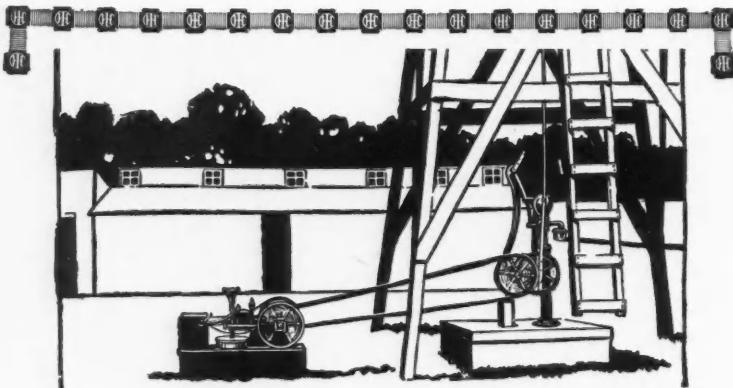


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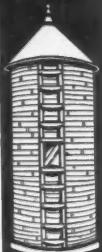
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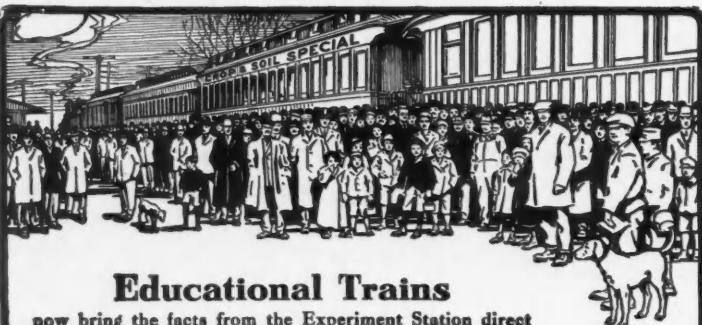
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The Relation of Light to Greenhouse Culture

Being extracts from a series of experiments made by the Mass. Agricultural Experiment Station.

IN July, The Mass. Agricultural Experiment Station published a Bulletin making for the first time public—the results of a series of exhaustive experiments conducted by them for the past few years. Many of the results are so intensely vital to greenhouse owners and prospective builders, that we have made selections here and there from the text and are giving them below.

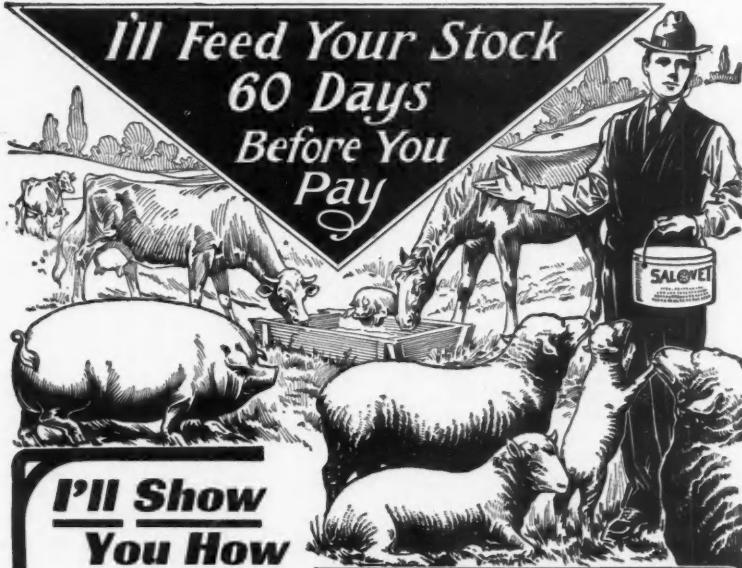
1. Lack of light is responsible for many greenhouse diseases.
2. The old type of greenhouse was crude in construction, especially as regards light. The modern tendency is to build larger houses; to use stronger material, casting less shade; and to use larger and better quality glass.
3. Large houses can be constructed relatively more cheaply and managed more easily because there is a less rapid change of atmospheric conditions, etc. This helps to eliminate many greenhouse troubles.
4. Morning light is more intense than afternoon light, our experiments showing a difference of 10 per cent, and ranging as high as 30 per cent for some houses.
5. The location of a house as regards points of the compass has a bearing on the practice of syringing plants, the yield of the crop, and to a certain extent on fungus infection.
6. To obtain the best results in a house running east and west, the house should be from 15 to 30 degrees north of east. This enables the plant to take advantage of the more intense morning light and the crop can be syringed with less danger from infection.
7. There appear to be no important differences in the light in a greenhouse at different distances from the glass, practically the same light being obtained at 5 feet as at 30 feet.

The Experiment Station Bulletin contains over forty pages devoted to the subject. You should read it from cover to cover. The Experiment Station has just written us that they will be very glad to mail copies of the Bulletin to all who may write for them.

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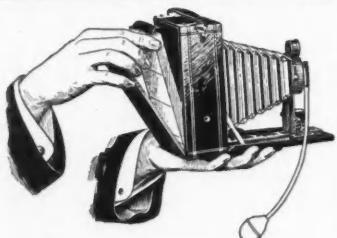
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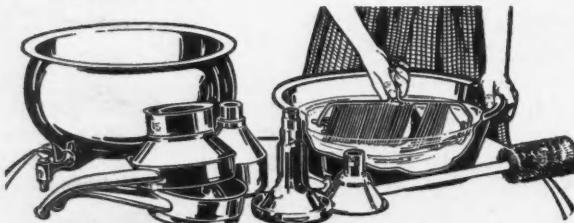
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